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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,365	08/24/2004	Chang-II Kim	2438-079	7411
22429	7590	12/21/2006	EXAMINER	
LOWE HAUPTMAN BERNER, LLP			PHAN, THIEM D	
1700 DIAGONAL ROAD			ART UNIT	PAPER NUMBER
SUITE 300			3729	
ALEXANDRIA, VA 22314				
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	12/21/2006	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/505,365	KIM, CHANG-IL	
	Examiner	Art Unit	
	Tim Phan	3729	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 24 August 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-14 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 24 August 2004 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>8/24/04</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. On page 2 of the amended Specification, filed on 8/24/04, line 6, after "March 15, 2002" delete: "and Korean Utility ... in their entirety" due to the one year period of priority right. See 35 USC 119.

Drawings

2. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicants will be notified and informed of any required corrective action in the next Office action. The objection to the drawing will not be held in abeyance.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 3-8 and 10-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Wiebe (US 4,203,200).

With regard to claim 1, Wiebe teaches a method of manufacturing an encapsulated plug-in blade fuse, comprising:

- processing a metal sheet (Fig. 4, 100) into a blank (Fig. 4, 130) having a plurality of continuously distributed pair of lead conductors (Fig. 4, 126);
- molding an insulator base (Fig. 2, 22; Fig. 5,20) integrally with each pair of the lead conductors;
- electrically interconnecting the lead conductors of the respective conductor pair with a fusible connector (Fig. 5, 10); and
- severing (Fig. 5, 20) the lead conductors from the blank.

With regard to claim 3, Wiebe teaches that the metal sheet is a rolled continuous strip (Fig. 4, 100).

With regard to claim 4, Wiebe teaches that the metal sheet is cut into a metal sheet

segment of a prescribed length (Fig. 4, 126 & 130) at said processing step.

With regard to claim 5, Wiebe teaches that the pair of lead conductors (Fig. 4, upper 126) are arranged in a single row along the length of the metal sheet at said processing step.

With regard to claim 6, Wiebe teaches that the pair of lead conductors are arranged in two or more parallel rows (Fig. 4, upper & lower 126) at said processing step.

With regard to claim 7, Wiebe teaches that a depressed portion (Fig. 5, 140) for receiving the fusible connector (Fig. 5, 150) is formed at one end portion of each of the lead conductors at said processing step.

With regard to claims 8 and 10-14, Wiebe teaches a fuse (Fig. 1, 20).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 2 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wiebe in view of Kozuka et al (US 5,622,769).

With regard to claim 2, Wiebe teaches a method of manufacturing an encapsulated plug-in blade fuse, which reads on applicants' claimed invention, except for fitting a protective

cap on the insulator base to enclose the fusible connector.

It is mere matter of design choice to create: two separate items of protective cap and insulator base wherein the protective cap fits on the insulator base to enclose the fusible connector, or three separate items of protective cap, insulator base and additional, reinforced-insulated cover for the fusible connector only wherein the protective cap fits on the insulator base to enclose the fusible connector and its reinforced cover, or two separate items of protective cap and insulator base wherein the protective cap fits to enclose only the fusible connector, or etc ... since it is known in the art that the protective cap and the insulator base is molded as single item (Fig. 3, 22) to enclose the fusible connector (Fig. 3, 28) and it appears that the invention would perform equally well with the single item molded as protective cap and insulator base in order to save labor costs and improve production.

With regard to claim 9, Wiebe teaches a fuse (Fig. 1, 20).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim Phan whose telephone number is 571-272-4568. The

examiner can normally be reached on M - F, 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Tim Phan
Examiner
Art Unit 3729

tp
December 16, 2006